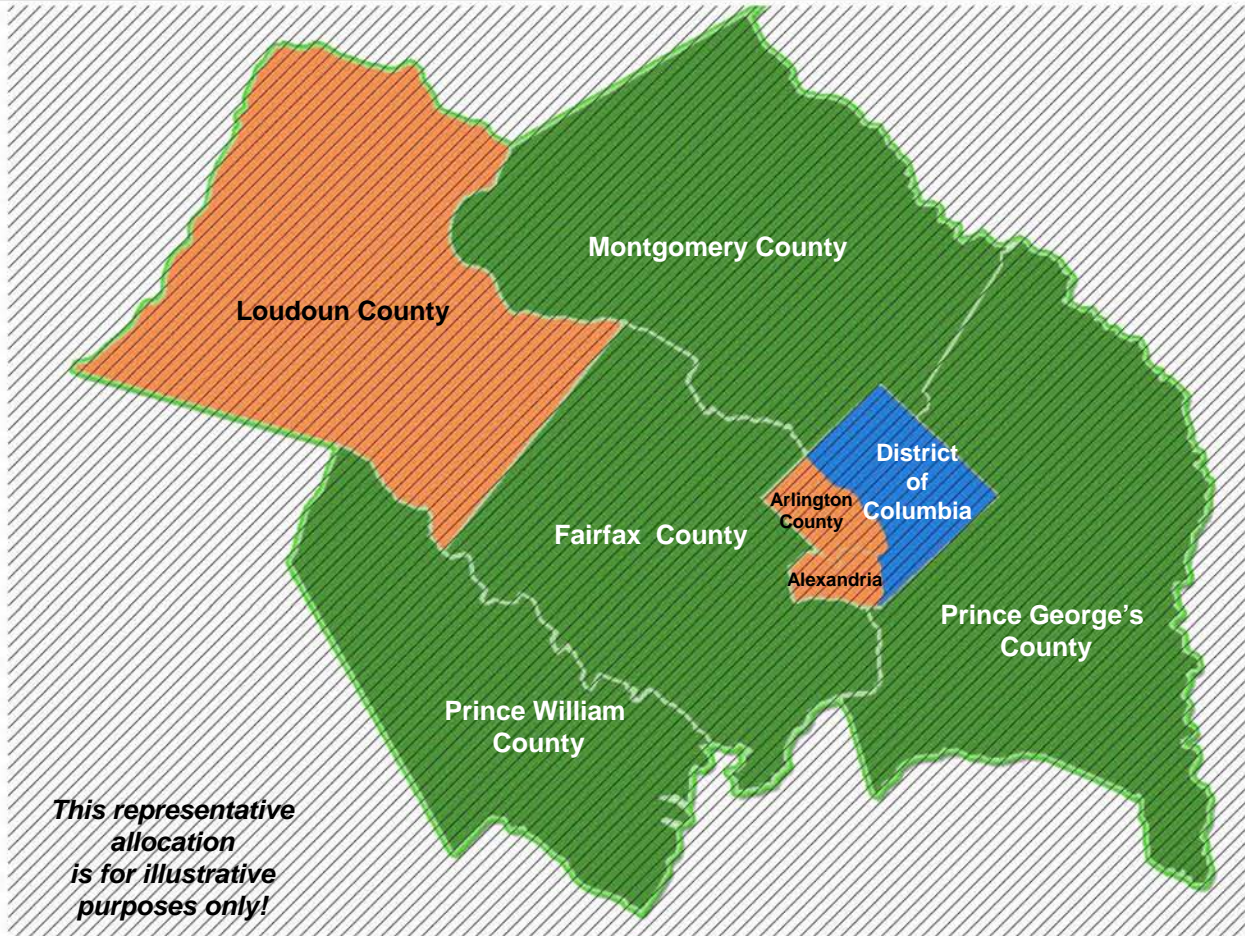


# Regional and National Concept of Interoperability



Common technology + shared frequencies = **INTEROPERABILITY**

## Legend

Purchasers of National  
Network Services

Regional Network  
(State & Local Gov.)

Statewide Public  
Safety Network

National Network  
'E Block' Licensee

# Concept of Interoperability Details

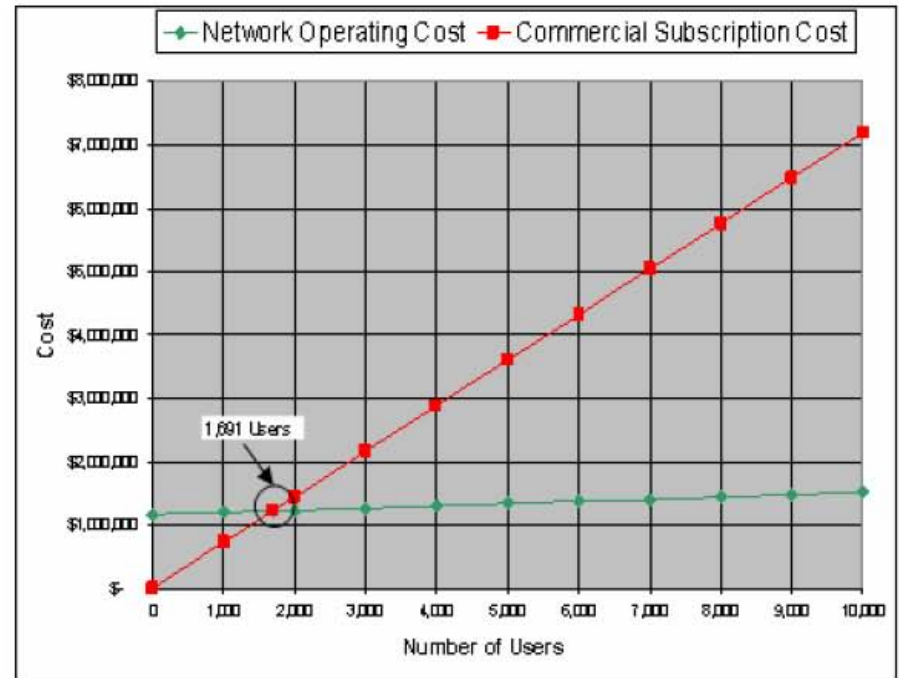
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- **Public Safety Spectrum (12 MHz)**
    - State and Local jurisdictions maintain the right to operate their own broadband network OR purchase National service;
  - **Technology**
    - Common technology standard for PS Spectrum and Block “E” spectrum;
    - Allow Open access and wholesale models
  - **Governance**
    - FCC issues a National license to Public Safety Trust;
    - FCC, National carrier, Trust and RPC authorizes regional sub-licensees based on pre-established standards and rules;
    - RPCs are the body through which state and local governments coordinate their election to utilize the National Network or build and operate their own network under a sub-license agreement;
    - Bi-lateral roaming agreements
  - **Recommend 3G National Multi-Regional Pilot Deployments**
    - 1-4 years in duration
    - Mix of public and public/private networks - where 700 MHz is cleared
    - **Benefits**
      - Tests public/private and private business and technology models
      - Provide immediate upgrades to our first responders in critical regional areas
      - Test voice and data devices
      - 3-G infrastructure can be fully leveraged when we convert to the new 4G national standard
-

# Why a National Network is good for “SOME” but not good for “ALL” jurisdictions

## *Operating Cost Comparison- Single Jurisdiction*

- Commercial **data-only** services for 10,000 devices equals **\$7.2 million** annually.
- \*\*Annual estimated operating costs for 10,000 users equals **\$1.5 million**.
- Most major jurisdictions currently pay approximately **\$5 million** annually in commercial service fees.



*Choice is the only way to ensure that “ALL” jurisdictions will have a financial incentive to utilize the 700Mhz spectrum.*

\*\*Cost calculation assumes 15 site network, 10,000 user devices, and depreciation.